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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/657,312	09/08/2003	John A. Manteiga	125896	9763
75	90 04/28/2005		EXAM	INER
John S. Beulic	· <del></del>	CASAREGOLA, LOUIS J		
Armstrong Teasdale LLP Suite 2600			ART UNIT	PAPER NUMBER
One Metropolitan Square			3746	
St. Louis, MO 63102			DATE MAIL ED. 04/29/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

-		$\mathcal{O}$					
	Application No.	Applicant(s)					
	10/657,312	MANTEIGA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Louis J. Casaregola	3746					
The MAILING DATE of this communication appearing for Reply	pears on the cover sheet with t	he correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.  after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep  If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin  earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply ly within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS e, cause the application to become ABAND	be timely filed  ) days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on							
· · · · · · · · · · · · · · · · · · ·	 s action is non-final.						
	<u>'</u>						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
)☐ Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-20</u> is/are rejected.	☑ Claim(s) <u>1-20</u> is/are rejected.						
7)⊠ Claim(s) <u>3,14-20</u> is/are objected to.	☑ Claim(s) <u>3,14-20</u> is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9) The specification is objected to by the Examine	er.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Of	ffice Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority document</li> </ul>	ts have been received.						
2. Certified copies of the priority documen	•						
3. Copies of the certified copies of the price		eived in this National Stage					
application from the International Burea	• • • •						
* See the attached detailed Office action for a list	t of the certified copies not rec	eived.					
		•					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Sumr						
2)		ail Date nal Patent Application (PTO-152)					
Paper No(s)/Mail Date	6) Other:						

## **Objections To Claims**

Claims 3 and 14-20 are objected to under 37 CFR § 1.75(a) for the following reasons:

In claim 3, lines 5-6, "counter-counter direction" includes a typographical error and was obviously intended to be "counter-clockwise direction".

Claim 14 and related dependent claims 15-20 recite "a combustor upstream from said compressor" (claim 14, line 3). The cited language includes a transcription error since a gas turbine's combustor must be downstream of its compressor -- see the position of combustor 16 and compressor 14 shown in Figure 1.

## Claim Rejections - 35 USC § 102

Claims 1, 2, 4-8, 11-16, 19 and 20 are rejected under 35 U.S.C. § 102(b) as being anticipated by Irwin.

The present claims read on gas turbine combustor assemblies of the type disclosed by Irwin. Attention is called to Figures 4 and 5; see combustor liner 53 and the surrounding casing structure comprising scroll duct 52 and air inlet 50. Note that the air openings (unnumbered) in liner 53 direct air uniformly around the liner as specified in claims 2, 7, 8, 15 and 16. Note also that the scroll duct has a cross section at its inlet

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end (near inlet 50) which is larger than the cross section at the duct's discharge and/or

opposite end as specified in claim 4, 5, 11, 12, 19 and 20.

With regard to claim 13, it is additionally pointed out that claimed reference to a

reduction in circumferential thermal gradient is merely a desired result. If such a result

is achieved by the claimed structure, the corresponding structure in the prior art can be

presumed to achieve the same result.

Claims 1-3, 6-10 and 13-18 are rejected under 35 U.S.C. § 102(e) as being anti-

cipated by Suenaga et al.

Suenaga discloses a further example of gas turbine combustor and scroll assem-

bly. Attention is called to Figures 2 and 3; see combustor liner 50, the surrounding cas-

ing structure comprising scroll 60 and air inlet 90, and liner inlet openings 51. Note that

the liner portion directly opposite the inlet (Fig. 3) constitutes a flow splitter that forms

clockwise and counter-clockwise flows as specified in claims 3, 10, 17 and 18. Note

also that the comment on claim 13 in the rejection over Irwin above is equally applicable

to the rejection over Suenaga.

L. J. Casaregola

571-272-4826 (M-F; 7:30-4:00)

703-872-9306 FAX

April 25, 2005

LOUIS J. CASAREGOLA
PRIMARY EXAMINER

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If repeated attempts to reach the examiner by telephone are unsuccessful, the art unit supervisor, Cheryl Tyler, can be reached at 571-272-4834.

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Information regarding the status of this application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR, and status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).